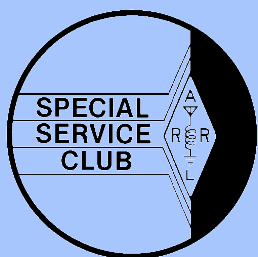




The Raleigh Amateur Radio Society's **EXCITER**

GET INVOLVED

- RARS General Membership meeting: **Second Tuesday** of the month.
- The RARS net meets every night except Saturday @ 8 p.m. on 146.640.
- The RARS Technical & Trader's net: Saturdays @ 8:00 PM on 146.64.
- RARS meets for a monthly dinner on the **First Tuesday** of each month.
- On the **fourth Tuesday** of every month, in-person meeting at Ridge Road Baptist Church where there will be project tables, demos, snacks, and socializing.



PUBLIC SERVICE EVENTS

Interested in helping? Visit
<https://www.rars.org/public-service.php>

frequently for our 2021 ham public service schedule.

RARS General Meeting

Main Topic: Mid-air Refueling Mission & Communication Methods Used

By: Joe Owen, K4HEW

Date: July 12, 2022

Time: Meeting at 7:30 PM, informal gathering at 7PM on Zoom.

Where: Zoom

RARS In Person Meeting

Date: July 26, 2022

Where: Ridge Road Baptist Church

Time: 7:00 PM

On the fourth Tuesday of every month. In-person meeting at Ridge Road Baptist Church where there will be project tables, demos, snacks, and socializing.

RARS Officers

PRESIDENT

John Honeycutt
N8ZU
919.417.2477
jfh49@bellsouth.net

VICE PRESIDENT

Tom Lewis
N4TL
N4TL2@yahoo.com

SECRETARY

Mark Kilmer
KM4JRH
919.676.0110
mark.kilmer@gmail.com

TREASURER

Greg Seamster
KE4PAX
919.859.0029
KE4PAX@arrl.net



The Raleigh Amateur Radio Society

The Raleigh Amateur Radio Society, Inc. (RARS) was founded in 1969 and continues to serve and support the amateur radio community in the greater Triangle area. In 1999, the society incorporated a new RARS and obtained 501(c)(3) non-profit tax status.

The objectives of the club are to promote worldwide friendship through amateur radio; to be of public service by providing radio communications in times of disaster, emergency, or civic needs; to educate members in radio technique, and to provide training classes to assist in obtaining amateur radio licenses.

Anyone interested in amateur radio is eligible to apply for membership. Regular dues for licensed amateurs are \$18 per year. (From July 1 through June 30.) Additional licensed immediate family members pay \$5 each per year. Dues for licensed full time students and licensed seniors 60 and over are \$12 per year. Unlicensed individuals may become associate members for \$9 per year. Applications for membership are available from the treasurer or on the RARS web site.

<https://www.rars.org>

Exciter

The Exciter is the official newsletter of the Raleigh Amateur Radio Society. It appears each month as a PDF on the RARS website at www.rars.org. Members receive email notification when the latest version is available. Please provide your email address to the Treasurer.




















































The Exciter welcomes articles, advertisements, and other contributions. To submit a piece to the newsletter, please contact the Editor. The Editor reserves the right to edit any and all pieces. The submission deadline for each month's Exciter is the Saturday that is ten days before the general meeting. All submissions must be final. Drafts are not accepted.

The views expressed in the Exciter are those of the individual authors and do not necessarily reflect the views of the Editor or RARS.

Tom Lewis, N4TL, editor (editor@rars.org)

June 14, 2022 RARS meeting

The meeting was held on Zoom. Many members connected from 7PM on. President John Honeycutt, N8ZU, ran the formal part of the meeting. The meeting minutes will be published in a future Exciter. Curt Phillips, W4CP gave a presentation about the up coming ARRL Field Day.

 Tom N4TL, Raleigh	 Devin Hedge, KN4FVH, Apex	 Tadd (KA2DEW) Torborg
 Greg KE4PAX (Host)	 Dick KD4ISC	 Tom K2UCU Cary
 Curt Phillips W4CP	 Duncan - KQ4ABW, Lillington	 Tony KJ7LT
 Larry K4LXV Raleigh	 Jay, WJ0J	 Mike KN4GUN, Raleigh
 Brock Card	 Jerry KE4TTS Cary, NC	 Mike Salmi, AE4IM Fuquay
 Alan AB4OZ RALEIGH	 Jim W1XR	 Richard Kroeger N1FUA Apex
 Andrew KJ4WRC Apex	 Joe N4BJH Wake Forest	 roger k4klk
 Andy Amrhein	 JOE, WA4GIR	 Sam KN4RWI
 Bob N4GEB	 John Honeycutt N8ZU Raleigh	 Tyler KO4BZA
 Bob K4RLC	 Just Joe - K4HEW - NC	 WA4OSS-Charles
 Bob Woodson	 K4ACS-Smitty-Raleigh	 WD4RDT Wilbur
 Brantley K4CBW	 Ken AD4GX	 BOB
 Carl Davis	 Lee Rogers WB4DRJ	 Joe KM4WRQ
 Charles Good	 Mark KB4CNQ	 Stephen NY4NC Wake Forest
 Charles WB4DCM Raleigh	 Mike Canada, KN4DRN Durham	 Steve W4MGT
 Chuck K4RGN Raleigh	 Stephen NY4NC Wake Forest	 Tadd (KA2DEW) Torborg
 dennis wz0q	 Steve W4MGT	 Tony KJ7LT

51 people attended the zoom meeting

The RARS field day was held at the property of Jim Carroll N4CAE and Beth Carroll, KF4QMR



Jim Carroll, N4CAE and Beth Carroll, KF4QMR

RARS field day Pictures



Welcome to Field Day tent



Richard Kroeger, N1FUA
Getting ready for the Educational Presentation

RARS field day Pictures



Inside Tony Bichler's camper
Tony was the 40 meter Phone band captain.



Tony Bichler, KJ7LT



Charles Swindell, WB4DCM and
Don Alderman, N4TH

RARS field day Pictures



Carl W8WZ and Brantley West, K4CBW. CW Station



Julie Royster, KT4JR and Mike Elks, KN4GUN
at the 80/15 meter Phone station

RARS field day Pictures



Mark Kilmer, KM4JRH and his small Navy generator
Mark was the 20 meter band captain



Digital station, James Marolda, KE4DRN

RARS field day Pictures



80 & 15 Meter phone Curt Phillips, W4CP and John Suen, KG6K



Two antennas used during RARS FD

Field Day 2022: Get on the Air!

This year I had the pleasure of playing “GOTA Coach” at the Raleigh Amateur Radio Society Field Day site. The GOTA station, short for “Get on the Air”, is an easy way for non-hams, new hams, and inactive hams to get on the air without the pressure of racking up points. The GOTA coach is responsible for introducing visitors to the radio and guiding them to a successful QSO (or two).



Overall, we had a good turnout at the GOTA station this year. Approximately 20 youth and adults visited the station. Of the twenty, half were interested in operating and took a seat with me at the radio. Everyone who sat down at the radio was introduced to the band plan, microphone, and VFO. Guest operators were encouraged to explore the 40m band and search for stations with strong signals to call. Several did make calls, and after some preservice, made a QSO. High fives were exchanged and operators would trade seats with the next person in line.



Not all visitors were interested in the radio. At least one young lady (age 7) enjoyed using the station's code practice oscillator. She was surprised when words she sent in Morse code could be repeated back to her in verbally. She then proceeded to practice sending words from QST advertisements. We look forward to her services at the CW station in a few years.

The GOTA station this year consisted of the KO4QH memorial ICOM IC-718, LDG AT-11 auto tuner, and TN07 SFP-102 vertical antenna loaned by Carl W8WZ.

We look forward to doing it all again next year!

73 Brantley West, K4CBW.

A FIELD DAY FAREWELL to CARROLL's FARM

Field Day 2022 is in the books (although the final score is still being calculated). We say that Field Day is (among other things) to practice emergency preparedness and this year some last minute challenges and changes to our line-up required some quick adaptation, similar to what might be required in a real emergency. But RARS still put 6 stations on the air, and made contacts across the USA and Canada. We also hosted many guests due to some great outreach work from GOTA station head Brantley West, K4CBW, who also works with young hams and new hams over the entire year. In the many Field Days I have participated in since 1972, over four clubs in two states, I've never seen the number of visitors getting to see ham radio in operation as we had this year. GREAT work Brantley! We also had two distinguished guests from the ARRL Field Organization stop by, North Carolina Section Manager Marvin Hoffman WA4NC and Roanoke Division Vice Director Bill Morine, N2COP. So lots of good contacts were made both on and off the air.

Carl Davis W8WZ and his crew carried the whole load for RARS on CW and he and his crew did an amazing job. The heavy lifting on the phone bands was, as usual, on 20 and 40 meters, capably handled by Mark Kilmer KM4JRH on 20, and Tony Bichler KJ7LT on 40. The 80/15 phone station was a bit understaffed, with W4OFO David Burt's illness limiting his time on-site and Rich Mitchell NC4EN away on urgent family business. But the experienced Jon Suen KG6K and Bruce Sherman KI4PAC on hand with capable assistance from NC4TS, KW4EE and KN4GUN, the 80/15 station acquitted itself capably. Digital modes were handled by James Marolda KE4DRN.

Special thanks go to everyone who assisted with the set-up and take-down, especially to those who helped with the AB-577 mast!! Most especially, to David Burt W4OFO who worked the set-up and take-down and to Mike Elks whose expertise with the AB-577 added to David's made for a smooth installation and take down of the mast.

An excellent educational session on Antenna Impedance was taught by Richard Kroeger N1FUA, who also handled site hydration and sustenance (water, soft drinks and snacks).

Before the "official" Field Day hour came, the hospitality tent was christened as the "Beth and Jim Carroll Hospitality Tent" with a banner which is to be re-used in the future. There was much agreement when I said, "If anyone deserves to have their name associated with the word 'hospitality', it's Beth and Jim Carroll!" Continuing the use of the banner for future Field Days will be a visual reminder of the almost quarter century of hospitality shown by the Carroll's to the RARS Field Day crews.

The score number crunching is not yet complete, and with the challenges we had this year our number may be down a bit. But, in all its parts, this was one of RARS' most successful Field Days!

73 Curt Phillips, W4CP, RARS Field Day Chairman

Future RARS Meeting Topics

Titles, topics, and speakers **subject to change.**

Date	Topic	Presenter
7/12/2022	"Mid-air Refueling Mission & Communication Methods Used"	Joe Owen K4HEW
8/9/2022	Small resonated HF Loop Antennas	Richard Quick, W4RQ
9/13/2022	"Things hams were taught that aren't true"	Chuck Till, K4RGN
10/11/2022	RARS Officers nominations & Esperanto and Amateur Radio	Election committee & Murray Merner, K4MHM
11/8/2022	RARS Officers election and Show and Tell	Election committee & members

During the Zoom meetings please keep
your microphone muted.

Please edit your name so your
Name, Call and Location are shown.

June 2022 RARS net report

30 nightly 2m nets

421 checkins

800 minutes

KT4JR Julie Royster

RARS Member Birthdays & New Members

Member Birthdays

Tom	K6UTL	07/01
Carl	KM4GBE	07/01
Ernesto	KN4HZT	07/02
James	KE4DRN	07/03
John	KN4EQO	07/04
Eugene	KD4YJX	07/06
Rick	KD4PJI	07/08
Crystal	KO4KPS	07/08
Steve	AC2AS	07/09
John	KN4YYYS	07/09
Brian	KO4JAS	07/09
John	AI4RT	07/10
Bill	W3IMD	07/10
Annette	KB4AQH	07/11
Doug	AD4UL	07/14
Bill	KO4GQL	07/15
Al	N4EII	07/15
Jim	KM4WRK	07/17
Lowell	K4EUP	07/17
Bob	K4RLC	07/19
Bill	W4WHW	07/23
Jack	K8TO	07/23
Ferdinand	AD4RC	07/25
Lee	WB4DRJ	07/25
Chuck	WB4TNC	07/26
Charles	WB4DCM	07/26
Mike	N4GU	07/27
William	K4CIA	07/28
Michael	K4MPW	07/28

Ashley	KN4OSV	07/28
Meme	KE4NGM	07/28
Dave	W4YDY	07/29
Bob	KI4YXM	07/30
Scott	KJ4TUC	07/30

New Members

John Canavan	KN4YYYS
Ernie Wall	NC4EW
Carl Linder	KM4GBE

RARS Monthly Dinner

All members and guests are welcome to the monthly (first Tuesday) RARS Supper, 6:30PM, at the CHOW Restaurant, 8311 Creedmoor Road, Raleigh. The restaurant is at the corner of Brennan Drive and Creedmoor Roads, behind McDonalds. After entering the restaurant, go to the left rear to the private room. Informal and Dutch, just bring your appetite and best rag to chew. "Your attendance will help us retain the private meeting room."

RARS Portable Operating group

Brantley West <cbwest@gmail.com>

To:Brantley West

Bcc:n4tl2@yahoo.com

Sat, Jul 2 at 12:39 AM

Hi all,

The next outing for the RARS Portable Operating group will be Thursday, July 7, from 4-7pm at the Hol-ly Shelter of White Deer Park in Garner. We'll have a special opportunity to operate the K2J station for the annual 13 Colonies event (<http://www.13colonies.us/bands>) representing North Carolina. This event runs from July 1-7 and attracts hams from all over the US who are trying to work all 13 original colonies as well as the bonus stations in Philadelphia, France, and Great Britain.

This will be a fun way to work the receiving end of a pileup. No need to bring a radio. We hope you'll join us!

-bw/K4CBW

C. Brantley West, III
cbwest@gmail.com

Deepest Sympathies

Thanks to his wife Adelaide we learned of the passing of RARS Member Chris Siegl, KE4TMO of Apex, NC, on June 8, 2022.

<https://www.dignitymemorial.com/obituaries/apex-nc/christopher-siegl-10786311>

A transfer of \$50 has been made to the RARS / Dick Bitner Youth Education fund in memory of **Christopher Siegl KE4TMO** (May 17, 1954 - June 8, 2022)

<https://www.rars.org>

RARS Membership links

Use the following link to verify / update your membership profile.

<https://www.rars.org/userprofile.php>

Use the following link to renew your membership.

https://www.rars.org/membership_renewal.php

HAM RADIO LUNCHEON

Everyone is welcome!

Every Thursday at 11:30 am

New York Diner, 909 McKnight Drive Knightdale.

<https://www.facebook.com/NewYorkDinerNC>

Check the latest information on the AB4OZ QRZ entry.

[QRZ.COM](https://www.qrz.com).

Hamfest Calendar

For details go to <https://www.arrl.org/hamfests/search>

Free AB4OZ Hamfest, Weather permitting

The free AB4OZ Hamfest will be Saturday, August 27, 2022. Setup at 9AM. Start time is 10AM. New location, Golden Corral Restaurant rear parking lot. 3551 Grenelle street, Raleigh NC 27603.

Check the latest information here [QRZ.COM](https://www.qrz.com).

<https://www.rars.org>

Miscellaneous information

From the DX Zone. For all of you guys that like to play with new antenna designs, EZNEC Pro/2 is now free!

<https://www.dxzone.com/eznec-pro-2-v-6-free/>

It's a great tool for designing your home made antenna for best results!

In 1951, The General Electric Company made this movie about how mobile radio could be a part of a local government's response to a Soviet nuclear attack. Filmed in Syracuse New York, which at that time was the home of General Electric's mobile radio business, it shows one of the first examples of what has evolved into the modern emergency communications systems.

Watch it here: <https://youtu.be/oWygCcuxBNU>

US Postal Service prices after July 10 2022.

First class mail

1 oz letter \$.60 was \$.58

Additional oz \$.24 was \$.20

Postcard \$.44 was \$.40

1 oz international \$1.40 was \$1.30



<https://www.rars.org>

MANUAL PROGRAMMING CHART FOR BAOFENG UV-5R — Created by N4KYW

How to Use: Pick a topic (column heading), then perform the steps moving down the column.

Prelims (some of these settings may already be correct):

Set Synthetic Voice ▼	Set Mode ▼	Select Active Display A ▼*	Set Receive Frequency ▼
Press Menu	Press VFO/MR button	Press A/B button until...	Use microphone keypad to...
Press 1 then 4	Arrive at Frequency Mode	upper freq display (A) is selected. Note: up-arrow will appear to the left of the upper frequency display	Enter desired receive frequency. Example: Pressing 1-4-5-2-1-0 will result in 145.210
Arrive at Voice Menu			
Press Menu again			
Arrive at ENG			
Press Menu (to store)			
Press Exit			

Programming:

Frequency Offset ▼	Shift Direction ▼	CTCSS Tone ▼	Empty a Channel ▼	Store New Parameters ▼
Press Menu	Press Menu	Press Menu	Press Menu	Press Menu
Press 2 then 6	Press 2 then 5	Press 1 then 3	Press 2 then 8	Press 2 then 7
Arrive at Offset Menu	Arrive at SFT-D Menu	Arrive at CTCSS menu	Arrive at DEL-CH	Arrive at MEM-CH
Press Menu again	Press Menu again	Press Menu again	Press Menu again	Press Menu again
Press 000600 (2 Meters)**	Press Up/Dn key	Press Up/Dn key	Press Up/Dn key	Press Up/Dn key
Continue ▼	Arrive at desired direction	Arrive at desired CTCSS	Arrive at desired channel	Arrive at desired channel
Press Menu (to store)	Press Menu (to store)	Press Menu (to store)	Press Menu (to store)	Press Menu (to store)
Press Exit	Press Exit	Press Exit	Press Exit	Press Exit

Generally speaking, programming of HTs and mobile rigs falls into one of two categories:

1. The desired channel must be emptied of the old settings before the new settings can be stored.
 2. The new settings can directly overwrite the old ones without first having to empty the channel.
- The Baofeng UV-5R belongs to the first category.

*The UV-5R can only store frequencies that are programmed from the **upper** line of the two-line frequency display (A).

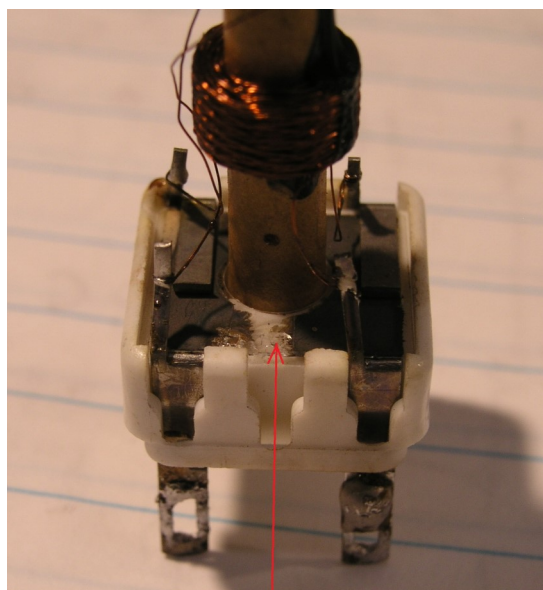
**Offset value for the 440 band is +/-5 MHz. For simplex programming, set Freq Offset to 000.000 and Shift Direction to Off.

Heathkit BR2 AM radio by Tom N4TL

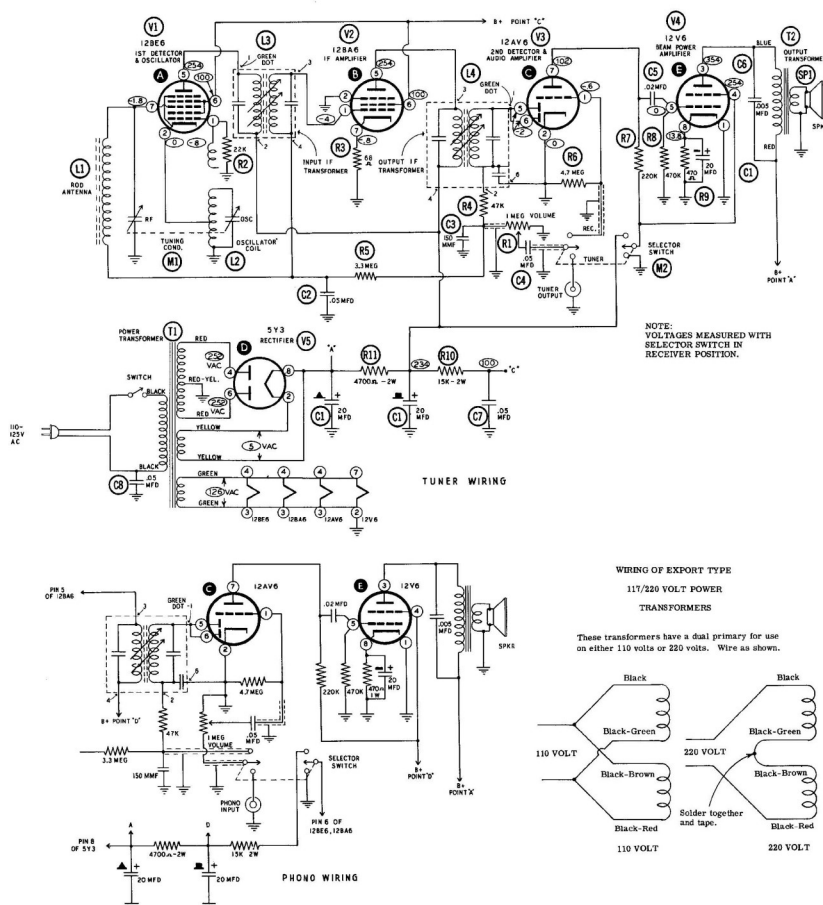
At the last AB4OZ Hamfest, I had a Heathkit BR2, five tube, AM radio for sale. It was working the last time I had it on. I told people it works. The radio did not sell. A few days ago, I plugged it in to see how well it played. Guess what? It did not work. All I heard was some crackling. I took the chassis out of the cabinet and did some voltage measurements. The plate voltage on a number of tubes was low. I found the grid voltage on the first IF amplifier was plus four volts. It should be negative four volts. Because of this incorrect grid voltage, the tube was drawing a lot of current pulling down the plate voltage.

Looking at the voltages on the transformer, I figured there was a short between the primary and secondary windings. I took the transformer out of the radio and my ohms meter showed no problem. It read very high resistance. I connected the transformer to a variable voltage power supply with a milliamp meter in the circuit. I found that when the voltage went above 200 volts there was about 40 ma of current flow. That is about 5,000 ohms of resistance. It only shows up with voltage applied. There is a thin piece of mica between the pins of the transformer. I scraped between pins 1&3 and 2&4. Now when applying voltage there is no current flow. I put the transformer back in the radio and now it works.

I am glad the radio did not sell at the Hamfest. I don't like selling something that is not as described. It is listed in the 1958 Heathkit catalog for \$18.95; the cabinet is \$4.95 extra.



Scraped this area to fix the leakage from pin to pin problem
Scraped between pins 1 & 3
as well as 2 & 4



Heathkit AR-3 radio on the top



Heathkit BR2 AM radio

RARS Classifieds

Copied from <https://www.rars.org/classifieds.php>

The items below were listed within the last 30 days on the RARS website.

Check the RARS Classified List on the RARS website regularly for new items.

Misc Ham Radio Gear

Posted June 25th, 2022 by: K4HF

Contact: k4hf@arrl.net

ICOM PS-30 13.8vdc/25a 2 units \$65 each

ICOM PS-55 13.8vdc/20a \$55

MFJ 989B 2KW 160 to 10 Meters Antenna Tuner \$195

MFJ 890 DX Beacon Monitor w/ps \$85

MFJ 1702B Coax Antenna sw w/ctr gndg pos. \$20

D-104 Base Mike w/2 wires \$35

Oak Bay LP-11P 1 KW Low Pass Filter \$10

JPS Communications NIR-10 Noise Suppressor \$75

Hy-Gain AW22XL Rotor, no controller, needs testing \$20

Turner 350 hand mike w/ptt \$20

Astron RS35M 13.8vdc/25a cont. \$120

Pyramid 13.8vdc/25a Power Supply \$65

Kenwood PC1A Phone Patch \$20

Signal Link USB Audio Interface, set for ICOM, works \$75

Wouxun KG-UV899 As new in box 2M/440 MHz 5 Watt handheld \$55

ICOM IC-229H 2M 50 Watt Mobile with mtg brkt, mike and manual \$75

Contact me by e mail, preferred, or (919) 872-6555 - Chuck



RARS Classifieds continued

ICOM IC-271H 2m SSB CW FM 100W Repair or Parts Radio

Posted June 20th, 2022 by: W4MGT

Contact: jenx4321@gmail.com

Not working now. This rig spent most of it's life stored in a closet, in the original packaging. It looks like new. But when powered up, the meter goes to 2/3 scale, the "receive" light is on, but the display is blank.

This is the "H" version, which is the 100W output version (when working). It has the optional internal power supply. I powered it up on an external 12V DC supply, and it exhibited the same symptoms as using the built in power supply.

The radio is complete and includes the power cord to plug into the wall, and a power cord to connect to a 12V DC supply.

\$150

Posted June 20th, 2022 by: WZ0Q

Contact: wz0q@outlook.com

Dell Inspiron 1545, For sale my extra laptop. laptop comes with a remote mouse, carry bag, has 15.6 screen, Battery cable . cooling fan external unit.Laptop works fine, Has Windows 8, HDD 300GB, pentiumdual-core cpu t4400@2.20GHz 2.20GHzram 3.00GB 64 bit operating system, x64-based processor Asking \$60.00 OBO

Dennis, wz0q

919-413-5998

or email or text

thanks

Baofeng UV-5R forsale

Posted June 20th, 2022 by: WZ0Q

Contact: wz0q@outlook.com

Have a like NIB Baofeng UV-5r for sale. comes with Battery, wrist strap, belt clip, manual, ear phone /mic, battery charger, antenna drop in charger.

Also has programming cable, and 2 adapters, sma to 239 and sma to bnc'

Asking \$25.00 for all.

text me or call 919-413-5998

Dennis, wz0q,

RARS Classifieds continued

100 Watt Loudspeakers

Posted June 18th, 2022 by: W4NPN

Contact: fbW4NPN@gmail.com

A pair of KEF C30 loudspeakers Type SP3058 in nice, wood-grained manufacturer's cabinets. Rated 100 Watts. Great for a stereo system. A real bargain at \$30 for the pair. Contact fbw4nnp@gmail.com to arrange a pickup in Chapel Hill.

For Sale ACOM 2000A Linear Amplifier, good working condition

Posted June 15th, 2022 by: K8SL

Contact: RKAndersson@hotmail.com

1500 watts.

The ACOM 2000A Automatic HF Linear Amplifier is the world's most advanced HF amplifier designed for amateur use. The ACOM 2000A is the first amateur HF amplifier to include both fully automatic tuning and sophisticated digital control capabilities. This revolutionary new amplifier delivers maximum legal power in all modes and operates on all HF amateur bands.

At the core of the ACOM 2000A is a classic HF amplifier design, employing two Svetlana 4CX800A (GU74B) high performance ceramic metal tetrodes operating in a grid-driven configuration.

\$3,500.

Contact by email RKAndersson@hotmail.com

73 K8SL

Free Air Fans for amplifiers

Posted June 5th, 2022 by: W4NPN

Contact: fbW4NPN@gmail.com

Free: Two Air Fans (blowers) that can be used for perhaps a linear amplifier. One is a radial one and the other is a dual linear one. Both are "squirrel cage types." Can provide photos if there is a serious interest. Contact fbw4nnp@gmail.com for a pickup in Chapel Hill. If no interest, they go to the salvage shed.

RARS Classifieds continued

FS: Tektronix 465M Oscilloscope

Posted June 3rd, 2022 by: AG4AY

Contact: todd.nichols@ieee.org

100 MHz, dual-trace, delayed sweep, works fine; comes with one probe, cover, cord, and manual. \$50; pick up in Cary or near fairgrounds.

This was a Bob "Mr. Scope" Garcia refurbished scope I've had for a number of years.

Pictures of operation measuring function generator output:

<https://imgur.com/ytMkhBy>

<https://imgur.com/9nCXKga>

FS: Hallicrafters SX-99

Posted June 2nd, 2022 by: W4BOH

Contact: infomet@embarqmail.com

Further testing shows operation on three lower bands, reasonable sensitivity, but not measured. No doubt needs alignment.

Modest rust on chassis, fine underneath.

Bandspread dial cord is loose, so front panel needs to come off to tighten string.

Filter caps are fine, but I'd change them after tuneup, just in case.

Somewhat better than an S-40 and much better than an S-38, actually usable for hamming AND SWLing, general coverage. This will make a fine daily driver!

I had it listed for \$50, but I really want to get some downsizing done, so it's \$25, picked up in Hillsborough. Wilson, W4BOH

MFJ-993B IntelliTuner automatic 150/300 watt antenna tuner

Posted June 1st, 2022 by: K9RDU

Contact: k9rdu@protonmail.com

Purchased new from HRO on 7/5/21. Used "barefoot". Selling because we got an amp and decided to go with resonant antennas instead of upgrading to the MFJ-998B. I *might* still have the original box. \$250 If you are buying our IC-7100 as well, I'll throw in the interface cable.

RARS Classifieds continued

Astron RS-35A

Posted June 1st, 2022 by: K9RDU

Contact: k9rdu@protonmail.com

Purchased new last year. Had to send it back for warranty work due to lack of thermal paste. Good linear power supply, but I'm too lazy to hook it up since our other one works. \$200.

DX Engineering HD 46ft fiberglass mast and cam lock set

Posted June 1st, 2022 by: K9RDU

Contact: k9rdu@protonmail.com

Brand new. Unboxed, never assembled or used. \$220 firm.

Rohn H-50 44ft steel telescoping mast.

Posted June 1st, 2022 by: K9RDU

Contact: k9rdu@protonmail.com

New and still in the shipping package. Shipping and tax is almost \$150 on this beast. Save yourself some money. \$250 firm.

Bencher BY-2 Chrome Iambic paddle with cable

Posted June 1st, 2022 by: K9RDU

Contact: k9rdu@protonmail.com

Works fine, we are both just single lever paddle people. \$175

Voicemaster speaker

Posted June 1st, 2022 by: K9RDU

Contact: k9rdu@protonmail.com

Purchased new for the IC-7100 backup rig. 10-20 hours use. \$120

RARS Classifieds continued

Icom IC-7100

Posted June 1st, 2022 by: K9RDU

Contact: k9rdu@protonmail.com

Purchased new from HRO on 11/3/21 to use while primary rig was in for repairs. This is a great All-band, all-mode radio. Only used about 10 hours. Have original box. \$950 including the basically new SM-20 mic (sat in an unopened box for 11+ years until we got this radio).

Misc VHF/UHF Mobile and Handheld Radios

Posted July 1st, 2022 by: K4HF

Contact: k4hf@arri.net

Yaesu FT-7800 2M/440 50 Watt Mobile, mike, manual, tested - \$195

FT 7800 with a Diamond K9000TM motorized carrier antenna mount with NR770HAB 2M/440 MHz antenna - \$255

ICOM IC-229H 2 Meter 50 Watt mobile, mike, manual, tested - \$60

Wouxun KG-UV899 2M/440 5 Watt Handheld as New, in box - \$55

Contact me by e mail, preferred, or (919) 872-6555 - Chuck

Wanted Kenwood Microphone

Posted July 5th, 2022 by: N3HKV

Contact: romanus262@gmail.com

Greetings;

My trusty Kenwood Microphone has bit the dust. I am looking for the following;

MC43s Hand Mic or any of the following

MC-60, MC-80, MC-85

You can email or text me at 412-600-9003

Thanks and 73's

Rolling Hydraulic floor jack

Posted July 4th, 2022 by: W4NPN

Contact: fbW4NPN@gmail.com

For Sale: Rolling hydraulic floor jack, mostly for automotive use. 4,000 pound capacity. Used a little over the years but has mostly lived in its box. \$20. Email me to arrange a pickup in Chapel Hill. Thinning the herd...fbw4nnp@gmail.com
